## **AMENDMENTS TO THE CLAIMS**

Please amend the claims as follows:

1. (Currently amended) A solid-state imaging apparatus comprising:

a solid-state imaging device having a plurality of pixels that image light originating from a subject, by dividing the light into a plurality of color signals with a plurality of types of color filters provided with said plurality of pixels; and

a signal processor that subjects photographed image data output from the solid-state imaging device to white balance correction at a gain corresponding to plurality of light source types,

wherein the solid-state imaging device further comprises a plurality of sensors and a plurality of filters, each sensor associated with a respective filter, wherein each of the plurality of filters is different from said plurality of types of color filters and has a different transmission characteristic from those of said plurality of types of color filters, wherein the plurality of sensors detect light in a wavelength range which induces a difference having a predetermined value or more between radiant energy of a first light source and radiant energy of a second light source, the plurality of sensors being provided on the surface of the solid-state imaging device, wherein said plurality of filters are dispersed uniformly over the surface of the solid-state imaging device; and

wherein the signal processor further comprises: a mixing ratio estimation unit that determines a mixing ratio between illumination light originating from the first light source and illumination light originating from the second light source, through use of a detection signal output from the plurality of sensors; and a gain computation unit that computes a gain where the white balance correction is to be effected, in accordance with the mixing ratio; and

wherein the plurality of sensors comprise two sensors, wherein peak sensitivity wavelengths for the sensors are substantially within 100 nm of each other.

2. (Original) The solid-state imaging apparatus according to claim 1, wherein the mixing ratio and the gain are determined with respect to each of the pixels.

- 3. (Original) The solid-state imaging apparatus according to claim 1, wherein the signal processor comprises:
- a color tone correction unit for correcting a color tone by multiplying color difference signals determined from the photographed image data by a color difference matrix; and
- a color difference matrix correction unit for correcting coefficients of the color difference matrix in accordance with the mixing ratio.
- 4. (Previously presented) The solid-state imaging apparatus according to claim 1, wherein the signal processor comprises a light source type determination unit that determines the type of at least one of the first light source and the second light source from the photographed image data.

## 5. (Canceled)

- 6. (Currently amended) A digital camera comprising:
- a solid-state imaging device having a plurality of pixels that image light originating from a subject, by dividing the light into a plurality of color signals with a plurality of types of color filters provided with said plurality of pixels; and
- a signal processor that subjects photographed image data output from the solid-state imaging device to white balance correction at a gain corresponding to a plurality of light source types,

wherein the solid-state imaging device further comprises a plurality of sensors and a plurality of filters, each sensor associated with a respective filter, wherein each of the plurality of filters is different from said plurality of types of color filters and has a different transmission characteristic from those of said plurality of types of color filters, wherein the plurality of sensors detect light in a wavelength range which induces a difference having a predetermined value or more between radiant energy of a first light source and radiant energy of a second light source, the plurality of sensors being provided on the surface of the solid-state imaging device, wherein

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said plurality of filters are dispersed uniformly over the surface of the solid-state imaging device; and

wherein the signal processor further comprises: a mixing ratio estimation unit that determines a mixing ratio between illumination light originating from the first light source and illumination light originating from the second light source, through use of a detection signal output from the plurality of sensors; and a gain computation unit that computes a gain where the white balance correction is to be effected, in accordance with the mixing ratio; and

wherein the plurality of sensors comprise two sensors, wherein peak sensitivity wavelengths for the sensors are substantially within 100 nm of each other.

- 7. (Currently amended) A solid-state imaging apparatus comprising:
- a solid-state imaging device having a plurality of pixels for imaging light originating from a subject, by dividing the light into a plurality of color signals with a plurality of types of color filters provided with said plurality of pixels; and

signal processing means for subjecting photographed image data output from the solidstate imaging device to white balance correction at a gain corresponding to a plurality of light source types,

wherein the solid-state imaging device further comprises a plurality of sensors and a plurality of filters, each sensor associated with a respective filter, wherein each of the plurality of filters is different from said plurality of types of color filters and has a different transmission characteristic from those of said plurality of types of color filters, wherein the plurality of sensors detect light in a wavelength range which induces a difference having a predetermined value or more between radiant energy of a first light source and radiant energy of a second light source, the plurality of sensors being provided on the surface of the solid-state imaging device, wherein said plurality of filters are dispersed uniformly over the surface of the solid-state imaging device; and

wherein the signal processing means further comprise: mixing ratio estimation means for determining a mixing ratio between illumination light originating from the first light source and illumination light originating from the second light source, through use of a detection signal output from the plurality of sensors; and gain computation means for computing a gain where the white balance correction is to be effected, in accordance with the mixing ratio; and

wherein the plurality of sensors comprise two sensors, wherein peak sensitivity wavelengths for the sensors are substantially within 100 nm of each other.

## 8. (Currently amended) A digital camera comprising:

a solid-state imaging device having a plurality of pixels for imaging light originating from a subject, by dividing the light into a plurality of color signals with a plurality of types of color filters provided with said plurality of pixels; and

signal processing means for subjecting photographed image data output from the solidstate imaging device to white balance correction at a gain corresponding to a plurality of light source types,

wherein the solid-state imaging device further comprises a plurality of sensors and a plurality of filters, each sensor associated with a respective filter, wherein each of the plurality of filters is different from said plurality of types of color filters and has a different transmission characteristic from those of said plurality of types of color filters, wherein the plurality of sensors detect light in a wavelength range which induces a difference having a predetermined value or more between radiant energy of a first light source and radiant energy of a second light source, the plurality of sensors being provided on the surface of the solid-state imaging device, wherein said plurality of filters are dispersed uniformly over the surface of the solid-state imaging device; and

wherein the signal processing means further comprise: mixing ratio estimation means for determining a mixing ratio between illumination light originating from the first light source and illumination light originating from the second light source, through use of a detection signal output from the plurality of sensors; and gain computation means for computing a gain where the white balance correction is to be effected, in accordance with the mixing ratio; and

wherein the plurality of sensors comprise two sensors, wherein peak sensitivity wavelengths for the sensors are substantially within 100 nm of each other.

- 9. (Previously presented) The solid-state imaging apparatus of claim 1, wherein said plurality of types of color filters are red (R), green (G), and blue (B) filters.
- 10. (Previously presented) The digital camera of claim 6, wherein said plurality of types of color filters are red (R), green (G), and blue (B) filters.
- 11. (Previously presented) The digital camera of claim 8, wherein said plurality of types of color filters are red (R), green (G), and blue (B) filters.

## 12. (Canceled)

- 13. (Previously presented) The solid-state imaging apparatus of claim 1, wherein the plurality of sensors are pixels of the solid-state imaging device which also image light originating from the subject.
- 14. (Previously presented) The solid-state imaging apparatus of claim 13, wherein the plurality of sensors are adjacent pixels of the solid-state imaging device.